

What is claimed is:

1. An electromagnetic shielding material comprising:
a polymer resin for a matrix; and
5 a conductive filler including a carbon nanotube and a metal.
2. The electromagnetic shielding material as recited
in claim 1, wherein a volume percent of the carbon nanotube
10 ranges about 0.2 % to about 10 % and a volume percent of
the metal powder ranges about 7.0 % to about 30 % so that
the total volume percent of the conductive filler is in a
range of about 7.2 % to about 40 %.
- 15 3. The electromagnetic shielding material as recited
in claim 1, wherein the carbon nanotube employs a single-
walled carbon nanotube or a multi-walled carbon nanotube.
- 20 4. The electromagnetic shielding material as recited
in claim 3, wherein the carbon nanotube is manufactured by
a method selected from the group consisting of a chemical
vapor deposition, an arc discharge, a plasma torch and an
ion impact.
- 25 5. The electromagnetic shielding material as recited
in claim 3, wherein the carbon nanotube is material
selected from the group consisting of a nanotube having a
phenyl-carbonyl C-C stretch bonding peak existing between
about 1,300 cm^{-1} and about 1,100 cm^{-1} , a nanotube having a
30 phenyl-carbonyl C-C stretch bonding peak existing between
about 1,300 cm^{-1} and about 1,100 cm^{-1} , a carbonic C-C
stretch bonding peak existing between about 1,570 cm^{-1} and
about 1,430 cm^{-1} and a carboxylic C=O stretch vibration peak
existing at about 1,650 cm^{-1} , a nanotube having a phenyl-
35 carbonyl C-C stretch bonding peak existing between about

1,300 cm^{-1} and about 1,100 cm^{-1} , a carboxyl C=O stretch vibration peak existing at about 1,650 cm^{-1} and an -OH bonding peak existing at about 3,550 cm^{-1} , a nanotube having a C-F bonding peak existing at about 1,250 cm^{-1} and a
5 combination thereof.

6. The electromagnetic shielding material as recited in claim 1, wherein the polymer resin is a general-purpose polymer selected from the group consisting of a silicon
10 rubber, a polyurethane, a polycarbonate, a polymethyl methacrylate, polyvinyl alcohol, Acrylonitrile-Butadiene-Styrene terpolymer (ABS) and a combination thereof.

7. The electromagnetic shielding material as recited
15 in claim 1, wherein the polymer resin is a thermosetting resin selected from the group consisting of epoxy, polyimide and a combination thereof.

8. The electromagnetic shielding material as recited
20 in claim 1, wherein electrical conductivity of the metal is higher than 10^5 S/cm.

9. The electromagnetic shielding material as recited in claim 8, wherein the metal is a material selected from
25 the group consisting of a silver powder, a silver-coated copper powder, a steel fiber, a copper fiber, an aluminum fiber and a nickel fiber.